

ARCS PROCEDURE:	RESET - MWR WATER VAPOR CALIBRATION CHECK (CALC)	PRO(MWR)-009.002
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RESET - MWR Water Vapor Calibration Check (CALC)

I. Purpose:

This document describes a performance calibration check on the MWR conducted in the field by the RESET team using water vapor profiles from rawinsonde data.

II. Cautions and Hazards:

None.

III. Requirements:

- Data from ISS sounding system and software to convert relative humidity profiles to water vapor mixing ratios.
- Calculator or computer to calculate integrated water vapor.

IV. Procedure:

A. Steps:

1. Obtain ISS sounding data.
2. If necessary, convert relative humidity to mixing ratio.
3. Sum up the total column of water vapor and compare to MWR measurement at the closest time.
4. Log expected and observed total column water vapor in CAL(MWRWV) record.
5. If the numbers differ by more than two (2) centimeters of precipitable water vapor, contact mentor for further instructions.

V. References:

1. Liljegren J.: "Microwave Radiometer Installation, Operations and Maintenance Guide (Version 2.1)," PNL Rept., Richland, WA, 17 Nov. 1994, 60 p., 1994a.
2. Radiometrics Corporation: "Water Vapor Radiometer," Instrument Manual, May 1992, 1992.

VI. Attachments:

None.